



AMENDMENTS TO THE CLAIMS

Listing of claims:

4. 1. (Currently Amended) A clutch device for a magnetic recording/reproducing apparatus, comprising:

a rotatable central shaft installed on a main chassis;

a drive pulley having a cylindrical pulley holder portion, extending therefrom, said drive pulley connected to said rotatable central shaft for rotation therewith;

driving means operatively connected to the drive pulley for rotating the drive pulley;

an up/down gear having a cylindrical gear holder unit with ~~the~~ an outer diameter thereof being smaller than ~~the~~ an inner diameter of the pulley holder portion and ascendable/descendable along the ~~rotating~~ rotatable central shaft; and

a clutch spring placed between the inner surface of the pulley holder portion and the outer surface of the gear holder unit for selectively transmitting a power with a certain torque from the drive pulley to the up/down gear in accordance with the rotational direction of the drive pulley; wherein



certain portions of the pulley holder portion and the gear holder unit are formed so as to project out toward the clutch spring in order to contact with the clutch spring.

5 ⁴ 2. (Original) The device of claim 1, wherein the clutch spring has a coil spring structure.

B 6 ⁴ 3. (Previously Presented) The device of claim 1, wherein one end of the clutch spring is in contact with the inner surface of the pulley holder portion, and the other end of the clutch spring is in contact with the outer surface of the gear holder unit.

4. (Cancelled)

20 5 ^A 5. (Previously Presented) The device of claim 21, wherein the connecting portion is formed so as to have the number of windings less than those of the inner contacting portion and the outer contacting portion.

6. (Cancelled)

7. (Previously Presented) The device of claim ⁴1, wherein the gear holder unit includes an outer cylindrical portion having an inner diameter larger than an outer diameter of the pulley holder portion and connected to the pulley holder portion.

B 8. (Original) The device of claim ⁴1, wherein the driving pulley and the up/down gear respectively include an engaging means in order to rotate together by being meshed with each other when the up/down gear is transferred toward the driving pulley.

9. (Previously Presented) The device of claim 8, wherein the gear holder unit includes an outer cylindrical portion having an inner diameter larger than the outer diameter of the pulley holder portion and connected to the pulley holder portion, and the engaging means includes two engaging ribs respectively projecting from the outer cylindrical portion and the driving pulley so as to face each other.

10. (Previously Presented) The device of claim ⁴1, wherein the driving pulley and the up/down gear respectively include a movement restriction means restricting the movement of the up/down gear over

a specific range when the up/down gear moves in a direction separated from the driving pulley.

11. (Previously Presented) The device of claim 10, wherein the movement restriction means projects from the driving pulley and the up/down gear, respectively, in order to be engaged each other as a hook structure.

12. (Previously Presented) The device of claim 10, wherein the drive pulley has a cylindrical bridging portion which projects out into the gear holder unit, and the movement restriction means hitch the bridging portion and the gear holder unit as a hook structure.

13. (Previously Presented) The device of claim ⁴1, wherein the up/down gear is constructed with a gear unit having a large gear and a small gear and said gear holder unit, and the gear unit and the gear holder unit are combined with each other.

14. (Previously Presented) The device of claim 13, wherein a boss portion is formed at the center of the gear unit, the large gear is formed at a disc-shaped portion extending from the boss

portion, and the small gear, having a diameter smaller than a the diameter of the large gear, is formed at the side of the disc-shaped portion.

15. (Previously Presented) The device of claim 13, wherein a cylindrical holder supporting portion is formed at the other side of the gear unit so as to support the gear holder unit.

B 16. (Previously Presented) The device of claim 13, wherein the gear holder unit is constructed with an inner cylinder portion and an outer cylinder portion, the clutch spring is in contact with the inner cylinder portion, and an engaging rib is formed at the outer cylindrical portion.

17. (Previously Presented) The device of claim 16, wherein the inner cylindrical portion has a hook structure so as to engage with the drive pulley.

18. (Cancelled)

19. (Cancelled)

20. (Cancelled)

19 21. (Currently Amended) A clutch device for a magnetic recording/reproducing apparatus, comprising:

a rotatable central shaft installed on a main chassis;

a drive pulley having a cylindrical pulley holder portion, extending therefrom, said drive pulley connected to said rotatable central shaft for rotation therewith;

driving means operatively connected to the drive pulley for rotating the drive pulley;

an up/down gear having a cylindrical gear holder unit with ~~the~~ an outer diameter thereof being smaller than ~~the~~ an inner diameter of the pulley holder portion and ascendable/descendable along the ~~rotating~~ rotatable central shaft; and

a clutch spring placed between the inner surface of the pulley holder portion and the outer surface of the gear holder unit for selectively transmitting a power with a certain torque from the drive pulley to the up/down gear in accordance with the rotational direction of the drive pulley, wherein the clutch spring includes an outer contacting portion producing friction by contacting to the inner surface of the pulley holder portion, an inner contacting

portion producing friction by contacting the outer surface of the gear holder unit and a connecting portion connecting the outer contacting portion and the inner contacting portion.

22. (Previously Presented) A clutch device for a magnetic recording/reproducing apparatus comprising

a rotating central shaft installed in a main chassis;

a driving pulley installed to the rotating central shaft, rotating by receiving power of a driving source and having a cylindrical pulley holder portion;

an up/down gear having a gear holder unit which includes an outer cylindrical portion having an inner diameter larger than an outer diameter of the pulley holder portion and connected to the pulley holder portion and ascendable/descendable along the rotating central shaft; and

a clutch spring placed between the inner surface of the pulley holder portion and the outer surface of the gear holder unit for selectively transmitting power with a certain torque from the drive pulley to the up/down gear in accordance with the rotational direction of the drive pulley.

23. (Currently Amended) A clutch device for a magnetic recording/reproducing apparatus comprising

a rotating central shaft installed ~~on~~ in a main chassis;

a driving pulley installed ~~to~~ to the rotating central shaft, rotating by receiving power of a driving source and having a cylindrical pulley holder portion;

an up/down gear having a cylindrical gear holder unit having an outer diameter smaller than an inner diameter of a pulley holder portion and ascendable/descendable along the rotating central shaft, wherein the driving pulley and the up/down gear respectively include an engaging means which enables them to mesh and rotate together when the up/down gear is transferred toward the driving pulley, an wherein

the gear holder unit includes an outer cylindrical portion having the inner diameter larger than the outer diameter of the pulley holder portion and connected to the pulley holder portion, and the engaging means includes two engaging ribs respectively projecting from the outer cylindrical portion and the driving pulley so as to face each other.

3 / 24. (Previously Presented) A clutch device for a magnetic recording/reproducing apparatus, comprising;

a central shaft installed on a main chassis;

a drive pulley having a cylindrical pulley holder extending therefrom, said drive pulley installed on the central shaft and rotated by receiving power from a drive source;

an up/down gear having a cylindrical gear holder unit and ascendable/descendable along the central shaft; and

a clutch spring placed between the gear holder unit for selectively transmitting power with a certain torque from the drive pulley to the up/down gear in accordance with the rotational direction of the drive pulley;

wherein the clutch spring is connected to the pulley holder portion and the gear holder unit, and the gear holder unit includes an outer cylindrical portion having an inner diameter larger than an outer diameter of the pulley holder portion and connected to the pulley holder portion.

18 / 25. (Previously Presented) A magnetic recording/producing apparatus containing the clutch device of claim 1.
